

IN THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please **AMENDED** claims 1, 4, 7-11, 15, and 19 as follows.

Please **ADD** new claims 20-22 as follows.

1. (CURRENTLY AMENDED) A process, by which a portable wireless telephone controls processing of a message on a message storage system, comprising:

receiving in the portable wireless telephone, according to a data channel application layer data transfer protocol, message service information from a resource database via a data channel between the portable wireless telephone and the resource database;

processing by the portable wireless telephone according to the data channel application layer data transfer protocol, a message responsive to the message service ~~information~~ information, via a data channel between the portable wireless telephone and the message storage system ~~according to the message service information~~; and

updating according to the data channel application layer data transfer protocol, the message service information in the resource database by the message storage system according to the processing via a data channel between the resource database and the message storage system.

2. (ORIGINAL) The process according to claim 1, wherein the message service information comprises location data of the message storage system and subscriber mailbox information.

3. (ORIGINAL) The process according to claim 1, wherein the message includes data selected from a group consisting of voice, video, audio, image, text or data.

4. (CURRENTLY AMENDED) A process, by which a portable wireless telephone controls processing of a message on a message storage system, comprising:

creating a resource database storing message service information;

receiving in the portable wireless telephone, according to a data channel application layer data transfer protocol, the message service information from the resource database via a data channel between the portable wireless telephone and the resource database;

storing a message in the portable wireless telephone without establishing a voice or data channel with the message storage system;

processing by the portable wireless telephone according to the data channel application layer data transfer protocol, a message responsive to the message service ~~information~~information, via a data channel between the portable wireless telephone and the message storage system ~~according to the message service information~~; and

updating according to the data channel application layer data transfer protocol, the message service information in the resource database by the message storage system according to the processing via a data channel between the resource database and the message storage system.

5. (ORIGINAL) A process according to claim 4, further comprising associating message storage systems providing different services to the portable wireless telephone.

6. (PREVIOUSLY PRESENTED) The process according to claim 4, wherein the message service information comprises location data of the message storage system and subscriber message mailbox information.

7. (CURRENTLY AMENDED) A process, comprising:

controlling from a portable wireless telephone processing of a voice message on a voice message storage system using a data channel with the voice message storage system and according to application layer subscriber message processing protocol messages on the data channel.

8. (CURRENTLY AMENDED) A process, comprising:

recording a voice message for a recipient subscriber in a portable wireless telephone without establishing a voice or data channel with the message storage system;

querying according to a data channel application layer data transfer protocol, address of a recipient-subscriber message storage system from a resource database via a data channel between the portable wireless telephone and the resource database;

transmitting the voice message to the recipient-subscriber message storage system, according to the data channel application layer data transfer protocol, via a data channel between the portable wireless telephone and the recipient-subscriber message storage system;

storing the transmitted message in a mailbox for the recipient subscriber in the recipient-subscriber message storage system;

updating according to the data channel application layer data transfer protocol, message service information of the recipient subscriber in the resource database by the recipient-subscriber message storage system according to the storing in the mailbox via a data channel between the resource database and the recipient-subscriber message storage system;

alerting automatically by the resource database according to the data channel application layer data transfer protocol, a recipient-subscriber portable wireless telephone with the message service information ~~by the resource database~~ via a data channel between the resource database and the recipient-subscriber portable wireless telephone;

establishing a data channel between the recipient-subscriber portable wireless telephone and the recipient-subscriber message storage system;

processing according to the data channel application layer data transfer protocol, the voice message in the recipient-subscriber portable wireless telephone via the data channel between the recipient-subscriber portable wireless telephone and the recipient-subscriber message storage system; and

updating according to the data channel application layer data transfer protocol, the message service information of the recipient subscriber in the resource database by the recipient-subscriber message storage system according to the voice message processing in the recipient-subscriber portable wireless telephone via a data channel between the resource database and the message storage system.

9. (CURRENTLY AMENDED) The process according to claim 8, wherein the processing further comprises:

receiving data packets corresponding to the voice message from the recipient-subscriber message storage system via the data channel; and

presenting the voice message to the recipient subscriber on the recipient-subscriber portable wireless telephone.

10. (CURRENTLY AMENDED) The process according to claim 8, wherein the transmitting and ~~receiving~~processing of the voice message further comprises:

transmitting and receiving, respectively, data units comprising data packets corresponding to the voice message, identification information of the voice message, total number of the data packets information and data packet sequence number information; and

determining whether to retransmit data packets;

retransmitting data packets responsive to the determining using the identification information, the total number of the data packets and the data packet sequence number information.

11. (CURRENTLY AMENDED) A system, comprising:

message storage systems storing voice messages; and

a portable wireless telephone comprising a processor to control processing of a voice message on the message storage systems using a data channel with the message storage systems and according to application layer subscriber message processing protocol messages on the data channel.

12. (PREVIOUSLY PRESENTED) A system, comprising:
message storage systems storing voice messages;
a resource database storing message service information relating to the voice messages; and
a portable wireless telephone comprising a storage unit and a processor programmed to receive according to a data channel application layer data transfer protocol the message service information from the resource database via a data channel between the portable wireless telephone and the resource database, to store a voice message in the storage unit without establishing a voice or data channel with the message storage system, and to process according to the data channel application layer data transfer protocol a voice message responsive to the message service information via a data channel between the portable wireless telephone and the message storage system according to the message service information.

13. (ORIGINAL) The system according to claim 12, wherein the message storage systems update the message service information in the resource database via a data channel between the message storage systems and the resource database.

14. (PREVIOUSLY PRESENTED) The system according to claim 12, wherein the message service information comprises location data of the message storage systems and subscriber message mailbox information.

15. (CURRENTLY AMENDED) A system, comprising:
a portable wireless telephone;
message storage systems storing voice messages; and
means for controlling processing voice messages on the message storage systems using a data channel between the portable wireless telephone and the message storage systems and according to application layer subscriber message processing protocol messages on the data channel.

16. (PREVIOUSLY PRESENTED) A portable wireless telephone, comprising a processor programmed to receive according to a data channel application layer data transfer protocol message service information from a resource database via a data channel between the portable wireless telephone and the resource database, and to process according to the data channel application layer data transfer protocol a message responsive to the message service

information via a data channel between the portable wireless telephone and a message storage system according to the message service information.

17. (ORIGINAL) The portable wireless telephone according to claim 16, further comprising a storage unit and wherein the processor is programmed to store the message in the storage unit without establishing a voice or data channel with the message storage system, as the process to automatically transmit and receive the message to/from the message storage system via the data channel based upon the message service information and present the message to a subscriber using the portable wireless telephone.

18. (PREVIOUSLY PRESENTED) The portable wireless telephone according to claim 17, wherein the message service information comprises location data of the message storage system and subscriber message mailbox information.

CA 19. (CURRENTLY AMENDED) A portable wireless telephone, comprising a processor programmed to establish a data channel with message storage systems storing voice messages, and to control processing of a voice message on the message storage systems using according to application layer subscriber message processing protocol messages on the data channel.

20. (NEW) The process of claim 7, wherein the data channel processing of the voice message on the voice message storage system comprises identifying a recipient group of a voice message to be transmitted on the data channel to the voice message storage system in one of the application layer subscriber-message-processing protocol messages of the voice message to the voice message storage system, thereby providing group voice messaging.

21. (NEW) The system of claim 11, wherein the portable wireless telephone further comprises a data storage storing location data of the voice message storage system as a local directory service function.

22. (NEW) The process of claim 1, further comprising:

automatically alerting by the resource database and according to the data channel application layer data transfer protocol, the portable wireless telephone with the message service information, via the data channel between the resource database and the portable wireless telephone, and

the processing of the message by the portable wireless telephone comprises:

automatically initiating by the portable wireless telephone in response to the message service information alerting, and according to the data channel application layer data transfer protocol via the data channel between the portable wireless telephone and the message storage system, receipt of the message from the message storage system.
